

**REMARKS**

By this Amendment Applicant has modified the independent claims and added new claims to further distinguish over the art of record. More specifically, in regard to independent claims 1 and 6, Applicant has added the further requirement that the horizontal-transfer register be capable of temporarily storing signal charges. The *Elabd* reference provides no teaching nor suggestion whatsoever regarding this structure because the region 47 of Fig. 6A relied upon by the Examiner in rejecting the claims can only transfer signal charge. It is not possible for this structure to store charge temporarily. Additionally, Applicant has modified independent claims 1 and 6 which are set forth as new claims 13 and 14. These alternate claims further specify to require that the accumulation gate being directly connected to the sensor array via a readout gate without any vertical transfer registers between the sensor array and the accumulation gate. The prior art references of record cited by the Examiner simply fail to teach or suggest the invention as now specified in the claims. Applicant has submitted an RCE for the purpose of having these modifications considered.

Respectfully submitted,

Date: 9/7/04

  
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